

What is claimed is:

1 1. A method for establishing a connection between wireless devices, comprising:
2 (a) performing an inquiry;
3 (b) performing an inquiry scan for a random duration following said
4 inquiry; and
5 (c) establishing the connection after receiving a device address in
6 response to said inquiry.

1 2. The method of claim 1, wherein said inquiry has a fixed duration.

1 3. The method of claim 1, wherein said operation (c) comprises paging said device
2 address.

1 4. The method of claim 1, wherein said method further comprises (d) establishing
2 the connection after receiving an inquiring device inquiry during said inquiry
3 scan.

1 5. The method of claim 4, wherein said method further comprises performing a
2 page scan while performing said inquiry scan.

1 6. The method of claim 5, wherein said operation (d) comprises responding with a
2 second device address upon receiving said inquiring device inquiry, and if said
3 second device address is paged during said page scan, establishing the
4 connection.

1 7. A method for establishing a connection between wireless devices, comprising:
2 (a) performing inquiries at random intervals;
3 (b) performing an inquiry scan and a page scan when not performing
4 said inquiries;
5 (c) upon receiving a first device address in response to one of said
6 inquiries, paging said first device address to establish the connection;
7 and
8 (d) upon receiving an inquiring device inquiry during said inquiry scan,
9 responding with a second device address, and if said second device
10 address is paged during said page scan, establishing the connection.

1 8. The method of claim 7, wherein said inquiries have a fixed duration.

1 9. The method of claim 7, wherein the wireless devices are not assigned
2 client/server roles prior to establishing the connection.

1 10. The method of claim 7, further comprising storing configuration information
2 upon the connection being established, and re-establishing the connection using
3 said configuration information upon the connection being lost.

1 11. The method of claim 10, wherein said re-establishing is attempted a number of
2 attempts until the connection is re-established, and if the connection is not re-
3 established, returning to operation (a).

1 12. The method of claim 10, wherein said configuration information comprises role
2 and device address information.

1 13. A method for establishing a connection between a first wireless device and a
2 second wireless device, comprising:
3 (a) at the first wireless device, performing first inquiries at random
4 intervals and performing first inquiry scans when not performing said
5 first inquiries;
6 (b) at the second wireless device, performing second inquiries at random
7 intervals and performing second inquiry scans when not performing
8 said second inquiries; and
9 (c) establishing the connection after the first wireless device receiving
10 one of said second inquiries during one of said first inquiry scans.

1 14. The method of claim 13, wherein said first inquiries have a first fixed duration,
2 and said second inquiries have a second fixed duration.

1 15. The method of claim 13, wherein the first wireless device and the second
2 wireless device are not assigned client/server roles prior to establishing the
3 connection.

1 16. The method of claim 13, wherein said method further comprises:

2 (a1) at the first wireless device, performing first page scans while

3 performing said first inquiry scans; and

4 (b1) at the second wireless device, performing second page scans while

5 performing said second inquiry scans.

1 17. The method of claim 16, wherein said establishing comprises:

2 (c1) sending a first device address to the second wireless device, wherein

3 said first device address corresponds to the first wireless device; and

4 (c2) paging the first wireless device using said first device address,

5 thereby establishing the connection.

1 18. The method of claim 13, further comprising (d) assigning a server role to the

2 first wireless device and a client role to the second wireless device, and if the

3 connection is lost, re-establishing the connection using said client role and said

4 server role.

1 19. The method of claim 18, wherein said re-establishing comprises paging the first

2 wireless device, wherein said paging is repeated a first number of attempts until

3 the connection is re-established, and if the connection is not re-established,

4 returning to operation (a).

1 20. A wireless device that communicates via a wireless link, said wireless device

2 comprising:

3 means for performing inquiries at random intervals;

4 means for performing inquiry scans and page scans when not performing said

5 inquiries; and

6 means for paging a responding device to establish the wireless link upon

7 receiving a first device address in response to one of said inquiries, wherein said first

8 device address identifies said responding device.

1 21. The wireless device of claim 20, further comprising:

2 means for providing a second device address upon receiving a discovering

3 device inquiry during one of said inquiry scans, wherein said second device address

4 identifies the wireless device; and

means for establishing the wireless link upon receiving a page to said second device address.

1 22. The wireless device of claim 20, wherein said inquiries have a fixed duration.

1 23. The wireless device of claim 20, further comprising a memory, wherein
2 configuration information is stored in said memory upon establishing the
3 wireless link.

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